The following listing of claim will replace all prior versions, and listings of claims in

the application:

<u>Listing of Claims</u>:

1. (Previously presented) A sheath system for enabling access through an opening in

the body of a patient, the sheath system comprising:

a dilation assembly having a radially expandable tubular sheath defining a lumen

having a first cross-sectional area when in a non-expanded condition, and a handle assembly

operatively coupled to a proximal end of the tubular sheath, the handle assembly defining an

aperture formed therein, and a first thread defined on the handle assembly in the aperture

thereof; and

an expansion assembly including a tubular member defining a lumen having a second

cross-sectional area which is larger than the first cross-sectional area of the tubular sheath of

the dilation assembly, the tubular member having an outer surface defining a second thread

formed along substantially an entire length of the tubular member from a location at least in

close proximity to a distal end of the tubular member to a location in close proximity to a

proximal end of the tubular member, the second thread being arranged for engaging the first

thread to axially advance the tubular member along the entire length thereof through the

tubular sheath.

2. (Original) The sheath system according to claim 1, further comprising an introducer

sized for receipt in the lumen of the radially expandable sheath, when the radially expandable

sheath is in the non-expanded condition.

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3. (Original) The sheath system according to claim 1, wherein the tubular member of

the expansion assembly is configured and dimensioned to be removably received within the

aperture formed in the handle assembly of the dilation assembly.

4. (Original) The sheath system according to claim 2, wherein the tubular sheath of the

dilation assembly comprises a mesh of individual filaments.

5. (Original) The sheath system according to claim 4, wherein the filaments are elastic

so that radial expansion of the tubular sheath causes axial shortening of the tubular sheath.

6. (Original) The sheath system according to claim 2, wherein the tubular sheath

comprises a tubular braid of individual filaments.

7. (Previously presented) The sheath system according to claim 2, wherein a shaft of

the introducer is removably receivable within the lumen of the tubular sheath.

8. (Original) The sheath system according to claim 3, wherein distal advancement of

the tubular member of the expansion assembly results in radial expansion of the tubular

sheath from the first cross-sectional area to the second cross-sectional area.

9. (Original) The sheath system according to claim 8, further comprising a seal at the

proximal end of the expansion assembly.

10. (Original) The sheath system according to claim 9, wherein the seal is made from

at least one of an elastomeric polymeric material and polyisoprene.

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11. (Original) The sheath system according to claim 8, further comprising a dilator

configured and dimensioned to be removably received within the lumen of the tubular

member of the expansion assembly.

12. (Original) The sheath system according to claim 11, wherein a distal end of the

dilator is tapered.

13. (Original) The sheath system according to claim 12, wherein the distal end of the

dilator defines threads.

14. (Original) The sheath system according to claim 12, wherein the dilator has a

length such that when the dilator is received within the lumen of the tubular member, the

tapered distal end thereof extends beyond a distal end of the tubular member.

15. (Previously presented) The sheath system according to claim 14, further including

an introducer having a shaft, wherein the shaft of the introducer has a length such that when

the introducer is received within the lumen of the tubular sheath, a distal end thereof extends

beyond a distal end of the tubular sheath.

16. (Original) The sheath system according to claim 9, further comprising a converter

configured and dimensioned to be removably attached to a proximal end of the expansion

assembly, the converter including an aperture formed therein, the aperture of the converter

having a cross-sectional area less than a cross-sectional area of the opening formed in the seal

of the expansion assembly.

17. (Previously presented) A method of using a sheath system to enable access through an opening in the body of a patient, comprising:

inserting a dilation assembly, having a radially expandable sheath defining a lumen and a proximal housing defining an aperture and a first thread in the aperture, into the opening in the body of the patient; and

introducing an expansion assembly, having a tubular member with an outer surface defining a second thread formed along substantially an entire length of the tubular member from a location at least in close proximity to a distal end of the tubular member to a location in close proximity to a proximal end of the tubular member, into the lumen of the dilation assembly to radially expand the lumen of dilation assembly and the opening in the body of the patient, the introduction including engaging the first thread with the second thread to axially advance the tubular member along the entire length thereof through the tubular sheath.

- 18. (Original) The method according to claim 17, further comprising inserting an introducer into the dilation assembly prior to the step of inserting the dilation assembly.
- 19. (Original) The method according to claim 17, further comprising inserting a dilator into the expansion assembly prior to the step of introducing the expansion assembly.
- 20. (Original) The method according to claim 17, wherein the lumen of the dilation assembly has a first cross-sectional area and the lumen of the expansion assembly has a second cross-sectional area which is larger that the first cross-sectional area of the lumen of the dilation assembly.

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21. (Original) The method according to claim 20, wherein the sheath is made from a

mesh of individual filaments.

22. (Original) The method according to claim 21, wherein radial expansion of the

tubular sheath causes axial shortening of the sheath.

23. (Original) The method according to claim 17, wherein the introduction of the

expansion assembly includes distal advancement of the tubular member of the expansion

assembly through the sheath of the dilation assembly, resulting in radial expansion of the

sheath.

24. (Original) The method according to claim 17, wherein engaging the first thread

with the second thread includes rotation of the tubular member with respect to the dilation

assembly.

25. (Original) The method according to claim 17, wherein the expansion assembly

includes a seal disposed across the lumen of the tubular member, the seal including an

opening formed therein, and the method further includes introducing an instrument into the

tubular member through the opening of the seal.

26. (Original) The method according to claim 25, further including removably

attaching a converter to a proximal end of the tubular member, wherein an opening formed in

the converter has a cross-sectional area which is less than the cross-sectional area of the

opening formed within the seal.

Claims 27-30. (Canceled)

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31. (Previously presented) The sheath system of claim 1, wherein the second thread extends along the entire length of the tubular sheath when the tubular member is fully inserted into the tubular sheath.